

AUG 20 2004

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/782,373
Filing Date	February 28, 2004
First Named Inventor	Jesse L. BEAUCHAMP
Art Unit	1621 1625
Examiner Name	Unassigned <i>Cornington</i>
Attorney Docket Number	1950-0024

**OTHER DOCUMENTS — NONPATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), Title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
R	AA	BELL et al. (1999), "A Small-Molecule Guanidinium Receptor: The Arginine Cork," <i>Angew. Chem. Int. Ed.</i> 38(17):2543-2547.	
R	AB	BRADSHAW et al. (1996), "Crown Ethers," <i>Comprehensive Supramolecular Chemistry</i> 1:35-95, G.W. Gokel (Ed.) Pergamon/Elsevier, Oxford.	
R	AC	CHANDLER et al. (1981), "Synthesis of Some 2,9-Disubstituted-1,10-Phenanthrolines," <i>J. Heterocycl. Chem.</i> 18:599-601.	
R	AD	FRIESS et al. (2001), "Protein Structure Information from Mass Spectrometry? Selective Titration of Arginine Residues by Sulfonates," <i>J. Am. Soc. Mass Spectrom.</i> 12:810-818.	
R	AE	GALÁN et al. (1992), "A Receptor for the Enantioselective Recognition of Phenylalanine and Tryptophan Under Neutral Conditions," <i>J. Am. Chem. Soc.</i> 114:1511-1512.	
R	AF	HU et al. (1995), "Gas-Phase Coordination Properties of Zn <sup>2+</sup> , Cu <sup>2+</sup> , Ni <sup>2+</sup> , and Co <sup>2+</sup> with Histidine-Containing Peptides," <i>J. Am. Chem. Soc.</i> 117(45):11314-11319.	
R	AG	JULIAN et al. (2001), "Site Specific Sequestering and Stabilization of Charge in Peptides by Supramolecular Adduct Formation with 18-Crown-6 Ether by Way of Electrospray Ionization," <i>Int. J. Mass Spectrom.</i> 210/211:613-623.	
R	AH	JULIAN et al. (2002), "Molecular Recognition of Arginine in Small Peptides by Supramolecular Complexation with Dibenzo-30-crown-10 Ether," <i>Int. J. Mass Spectrom.</i> 220:87-96.	
R	AI	JULIAN et al. (2002), "The Unusually High Proton Affinity of Aza-18-crown-6 Ether: Implications for the Molecular Recognition of Lysine in Peptides by Lariat Crown Ethers," <i>J. Am. Soc. Mass Spectrom.</i> 13:493-498.	
R	AJ	JULIAN et al. (2003), "Molecular Mousetraps: Gas-Phase Studies of the Covalent Coupling of Noncovalent Complexes Initiated by Reactive Carbenes Formed by Controlled Activation of Diazo Precursors," <i>Angew. Chem. Int. Ed.</i> 42(9):1012-1015.	
R	AK	LEE et al. (1998), "Salt Bridge Chemistry Applied to Gas-Phase Peptide Sequencing: Selective Fragmentation of Sodiated Gas-Phase Peptide Ions Adjacent to Aspartic Acid Residues," <i>J. Am. Chem. Soc.</i> 120(13):3188-3195.	
R	AL	LEE et al. (1998), "Selective Binding of Crown Ethers to Protonated Peptides Can Be Used to Probe Mechanisms of H/D Exchange and Collision-Induced Dissociation Reactions in the Gas Phase," <i>J. Am. Chem. Soc.</i> 120(23):5800-5805.	
R	AM	LIN et al. (1998), "C-Terminal Peptide Sequencing via Multistage Mass Spectrometry," <i>Anal. Chem.</i> 70(24):5162-5165.	
R	AN	LUDWIG (2000), "Calixarenes in Analytical and Separation Chemistry," <i>Fresenius J. Anal. Chem.</i> 367:103-128.	
R	AO	MALEKNIA et al. (1993), "Cavity-Size-Dependent Dissociation of Crown Ether/Ammonium Ion Complexes in the Gas Phase," <i>J. Am. Chem. Soc.</i> 115(7):2837-2843.	
R	AP	NEMIROVSKIY et al. (1998), "Gas Phase Studies of the Interactions of Fe <sup>2+</sup> with Cysteine-Containing Peptides," <i>J. Am. Soc. Mass Spectrom.</i> 9:1285-1292.	
R	AQ	NGOLA et al. (1999), "A Selective Receptor for Arginine Derivatives in Aqueous Media. Energetic Consequences of Salt Bridges That Are Highly Exposed to Water," <i>J. Am. Chem. Soc.</i> 121(6):1192-1201.	
R	AR	RENSING et al. (2001), "Optimization of a Synthetic Arginine Receptor. Systematic Tuning of Noncovalent Interactions," <i>J. Org. Chem.</i> 66(17):5814-5821.	
R	AS	SCHRADER (1998), "Strong Binding of Arylguanidinium Ions by Benzylidene Bisphosphonates — Evidence for π-cation and π,π-interactions," <i>Tetrahedron Letters</i> 39:517-520.	
R	AT	STEEN et al. (2002), "Analysis of Protein-Nucleic Acid Interactions by Photochemical Cross-Linking and Mass Spectrometry," <i>Mass Spectrom. Rev.</i> 21:163-182.	

Examiner Signature	<i>Raymond Cornington</i>	Date Considered	8/1/04
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
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Sheet	2	of	2	Filing Date	February 28, 2004
				First Named Inventor	Jesse L. BEAUCHAMP
				Art Unit	1621 1625
				Examiner Name	Unassigned <i>Surajpal</i>
				Attorney Docket Number	1950-0024

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X	AU	TSAPRAILIS et al. (1999), "Influence of Secondary Structure on the Fragmentation of Protonated Peptides," <i>J. Am. Chem. Soc.</i> 121(22):5142-5154.			
P	AV	TSAPRAILIS et al. (2000), "Refining the Model for Selective Cleavage at Acidic Residues in Arginine-Containing Protonated Peptides," <i>Int. J. Mass Spectrom.</i> 195/196:467-479.			
W	AW	WEIJNEN et al. (1992), "Functionalised 1,10-Phenanthroline Metallocatalysts as Models for Hydrolytic Metalloenzymes," <i>J. Chem. Soc. Perkin Trans.</i> 2:829-834.			

Examiner Signature	<i>Raymond Carty</i>	Date Considered	8/18/06
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